

In the abstract:

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ABSTRACT

A method for rate control for encoding video sequence, wherein the video sequence includes a plurality of Group Of Pictures, wherein each Group of Picture includes at least an I-frame and an Inter-frame, where the rate control method includes the following steps for the encoding of the Inter-frame in the Group of Picture: determining a desired frame rate based on an available bandwidth of a channel for transmitting the video sequence and an available computational resources for the encoding process; determining a target buffer level based on the desired frame rate and the position of the Inter-frame with respect to the I-frame; and determining a target bit rate based on the target buffer level and the available channel bandwidth, wherein the target bit rate is used for controlling the rate of encoding the video sequence.